

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

401 M Street, S.W.

Washington, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137). U.S. Environmental Protection Agency. 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX

Date <u>11/29/06</u>			EPA Reg No./File Symbol 40810-24		Page 1 of 6
Applicant's/Registrant's Name & Address Ciba Specialty Chemicals Corporation 540 White Plains Road, P. O. Box 2005 Tarrytown, NY 10591-9005			Product Irgaguard® B7000		
Ingredient: silver (PC 72501) and zinc (PC 129015)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
GENERIC DATA - SILVER					
830.6302	Color	NA	Per page 5 of Silver RED, TGAI requirements are satisfied by MP data		Agency phone call 4/22/03
830.6303	Physical State	NA	Per page 5 of Silo's RED, TGAI requirements are satisfied by MP		Agency phone call 4/22/03
830.6304	Odor	NA	Per page 5 of Silver RED, TGAI requirements are satisfied by MP data		Agency phone call 4/22/03
830.6313	Stability	NA	Per page 5 of Silver RED, TGAI requirements are satisfied by MP data		Agency phone call 4/22/03
830.7000	PH	NA	Per page 5 of Silver RED, TGAI requirements are satisfied by MP data		Agency phone call 4/22/03
830.7200	Melting Point	NA	Per page 5 of Silver RED, TGAI requirements are satisfied by MP data		Agency phone call 4/22/03
830.7220	Boiling Point	NA	Per page 5 of Silver RED, TGAI requirements are satisfied by MP data		Agency phone call 4/22/03
830.7300	Density/relative density/bulk density	NA	Per page 5 of Silver RED, TGAI requirements are satisfied by MP data		Agency phone call 4/22/03
830.7370	Dissociation Constant	NA	Per page 5 of Silver RED, TGAI requirements are satisfied by MP data		Agency phone call 4/22/03
830.7840-7860	Solubility	NA	Per page 5 of Silver RED, TGAI requirements are satisfied by MP data		Agency phone call 4/22/03
Signature <u>Mario Paquette</u>			Name and Title <u>MARIE PAQUETTE Sr. Compliance Specialist</u>		Date <u>11/29/06</u>

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DATA MATRIX

Date	11/29/06	EPA Reg No./File Symbol	40810-24	Page 2 of 6
Applicant's/Registrant's Name & Address	Ciba Specialty Chemicals Corporation 540 White Plains Road, P. O. Box 2005 Tarrytown, NY 10591-9005	Product	Irgaguard® B7000	
Ingredient: silver (PC 72501) and zinc (PC 129015)				

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
J.7950	Vapor pressure	NA	Per page 5 of Silver RED, TGAI requirements are satisfied by MP data		Agency phone Call 4/22/03
870.1100	Acute oral toxicity - rat	42032702, 42664501	Kanebo	Per	Footnote 10
870.1200	Acute dermal toxicity - rat	42032702, 42664501	Kanebo	Per	Footnote 10
870.1300	Acute inhalation toxicity	42032702, 42664501	Kanebo	Per	Footnote 10
870.2400	Primary eye irritation - rabbit	42032702, 42664501	Kanebo	Per	Footnote 10
870.2500	Primary dermal irritation	42032702, 42664501	Kanebo	Per	Footnote 10
870.2600	Dermal sensitization	42032702, 42664501	Kanebo	Per	Footnote 10
870.3150	Subchronic dog oral toxicity-90-day	45862201	Sinanen	Pay	
U-3310	90 day oral toxicity - rodent	RED Ref		Pub	Footnote 1
J.3700	Developmental toxicity - rodent	RED Ref		Pub	Footnote 2
870.3800	Reproduction and fertility effects	45827901	Sinanen	Pay	
870.5265	In vitro mutagenicity	RED Ref		Pub	Footnote 3
870.5300	Mutagenicity - mammalian cells in culture	RED Ref		Pub	Footnote 3
870.5380	In vivo cytogenetics	RED Ref		Pub	Footnote 3
850.1075	Daphnia acute toxicity	42650501	Mason Chemical	Pay	
850.1075	Acute toxicity - fish	42650501	Mason Chemical	Pay	
850.2100	Avian Acute toxicity	43312901	Mason Chemical	Pay	

Signature	<i>Marie Paquette</i>	Name and Title	MARIE PAQUETTE, Sr. Compliance Specialist	Date	11/29/06
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DATA MATRIX

Date	11/29/04	EPA Reg No./File Symbol	40810-24	Page 3 of 6
Applicant's/Registrant's Name & Address	Ciba Specialty Chemicals Corporation 540 White Plains Road, P. O. Box 2005 Tarrytown, NY 10591-9005	Product	Irgaguard® B7000	
Ingredient: silver (PC 72501) and zinc (PC 129015)				

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
835.2120	Hydrolysis	RED Ref		Pub	Footnote 4
GENERIC DATA - ZINC Per EPA letter of 4/17/03, Reference zinc oxide					
830.6302	Calor	41777903	Monsanto	Pay	Footnote 11
830.6303	Physical State	41777903	Monsanto	Pay	Footnote 11
330.6304	Odor	41777903	Monsanto	Pay	Footnote 11
830.6313	Stability	41777903	Monsanto	Pay	Footnote 11
830.7000	pH	41777903	Monsanto	Pay	Footnote 11
830.7200	Melting point	41777903	Monsanto	Pay	Footnote 11
830.7220	Boiling point	41777903	Monsanto	Pay	Footnote 11
830.7300	Density/relative density/bulk density	41777903	Monsanto	Pay	Footnote 11
7.7370	Dissociation constant	41777903	Monsanto	Pay	Footnote 11
7.7840-7860	Solubility	41777903	Monsanto	Pay	Footnote 11
830.7950	Vapor pressure	41777903	Monsanto	Pay	Footnote 11
870.1100	Acute oral toxicity-rat	147624	Monsanto	Old	Footnote 11
870.1200	Acute dermal toxicity - rat	147625	Monsanto	Old	Footnote 11
870.1300	Acute inhalation toxicity	43258601	Monsanto	Pay	Footnote 11
870.2400	Primary eye irritation - rabbit	147627	Monsanto	Old	Footnote 11
870.2500	Primary dermal irritation	147626	Monsanto	Old	Footnote 11
870.2600	Dermal sensitization	43258602	Monsanto	Pay	Footnote 11
870.3250	90 day dermal toxicity-rodent	RED Ref		Pub	Footnote 5.9

Signature	Mari Paquette	Name and Title	MARIE PAQUETTE, Sr. Compliance	Date	11/29/04
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Ingredient: silver (PC 72501) and zinc (PC 129015)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
3700	Developmental toxicity - rodent	RED Ref		Pub	Footnote 7, 9
505265	In vitro mutagenicity	RED Ref		Pub	Footnote 7, 9
870.5300	Mutagenicity - mammalian cells in culture	RED Ref		Pub	Footnote 7, 9
870.5380	In vivo cytogenetics	RED Ref		Pub	Footnote 7, 9
850.1010	Daphnia acute toxicity	155227	Monsanto	Old	
850.1075	Acute toxicity - fish	155224 155228	Monsanto	Old	
850.2100	Avian Acute Toxicity	155226	Monsanto	Old	
835.2120	Hydrolysis	RED Ref		Pub	Footnote 8, 9

Footnote 1: Published literature references cited in Silver RED (US EPA 1993):

- Wagner, P.A., Hoekstro, W. and Ganther, H.E. 1975. Alleviation of silver toxicity by selenite in the rat in relation to tissue glutathione peroxidase. Proc. Soc. Exp. Biol. Med. 148:1106-1420
- Van Vleet, J.F. 1976. Induction of lesions of Selenium-vitamin E deficiency in pigs fed silver. Am. J. Vet. Res. 37:1425-1420
- Day, W.A., Hunt, J.S. and McGiven, A.R. 1976. Silver deposition in mouse glomeruli. Pathology 8:201-204
- Walker, F. 1971. Experimental Argyria: A model for basement membrane studies. Brit. J. Exp. Path. 52:589-593
- Olcott, C.T. 1947. Experimental argyrosis. III. Pigmentation of the eyes of rats following ingestion of silver during long periods of time. Am. J. Path. 23:783-789.
- Olcott, C.T. 1948. Experimental argyrosis. IV. Morphological changes in the experimental animal. Am. J. Path. 24: 813-833.
- Olcott, C.T. 1950. Experimental argyrosis. V. Hypertrophy of the left ventricle of the heart in rats ingesting silver salts. Arch. Path. 49:138-149.
- U.S. DHHS. PHS. Agency for Toxic Substances and Diseases Registry, Dec. 1990. Toxicology Profile for Silver. Publ. No. TP-90-24
- Goyer, R.A. 1991. Toxic effects of metals. Casserett and Doull's Toxicology. Eds. M. Amdur, J. Doull, and C. Klassen. Pergamon Press. 623-280.
- Gaul, L.E., and Stand, A.H. 1935. Clinical Spectroscopy. Seventy cases of generalized argyrosis following organic and colloidal silver medication, including a biospectrometric analysis of ten cases. J. Am. Med. Assoc. 104:1387-1390

Footnote 2: Published literature references cited in Silver RED (US EPA 1993):

Signature	Marie Paquette	Name and Title	MARIE PAQUETTE, Sr. Compliance Specialist	Date	11/29/06
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Ingredient:	silver (PC 72501) and zinc (PC 129015)			
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status
				Note

- Runghy, J, Slomianka, L., Dansker, G., Anderson, A.H., and West, M.J. 1987. A quantitative evaluation of the neurotoxic effect of silver on the volumes of the components of the developing rat hippocampus. Toxicol. 43:261-268

- U.S. DHHS. PHS. Agency for Toxic Substances and Diseases Registry, Dec. 1990. Toxicology Profile for Silver. Pub. No. TP-90-24

Footnote 3: Published literature references cited is Silver RED (US EPA 1993):

- Demrerec, M., Bertani, G., and Fling, J. 1951. A survey of chemicals for mutagenic action on E. Coli. Am. Nat. 85:119- 136.
- Nishioka, H. 1975. Mutagenic activity of metal compounds in bacteria. Murat. Res 31:185.189.
- U.S. DHHS. PHS. Agency for Toxic Substances and Diseases Registry, Dec. 1990. Toxicology Profile for Silver. Pub. No. TP-90-24
- Rossman, T.G., and Molina, M. 1986. The genetic toxicology of metal compounds: II. Entrancement of ultraviolet light-induced mutagenesis in Escherichia coli WP2 Environ. Mutagen 8:263-271.

Footnote 4: Published literature references cited it Silver RED (US EPA 1993):

- U.S. DHHS. PHS. Agency for Toxic Substances and Diseases Registry, Dec. 1990. Toxicology Profile for Silver, Pub. No. TP-90-24 R
- Buffle, J. Complexation Reactions in aquatic chemistry: An analytical approach. 1990. Ellis Harwood, NY
- Cotton, F.A., and Wilkenon G. Advanced Inorganic Chemistry. Fifth Edition 1988. John Wiley and Sons, NY
- Greenwood, N.N. and Earnshaw; A. Chemistry of the Elements. 1984. Pergamon Press Ltd., Oxford. UK
- Irgolic, K.J., and Martell, A.E. Environmental Inorganic Chemistry. 1985. VCH Publishers, Inc.
- Morel, F.M.M. Principles of aquatic chemistry. 1983. John Wiley and Sons, NY.
- Muller, A. and Krebs, B. Studies in inorganic chemistry. Vol. 5: sulfur: its significance for chemistry. For the Geo- Bio- and Cosmosphere and Technology. 1984. Elsevier Publishers. Amsterdam.
- Muir, L.E. Intervacial phenomena in metals and alloys. 1975. Addison Wesley Publishing Company, Reading MA
- Pourbaix, M. Atlas of electrochemical equilibria in aqueous solutions, 1974. Translated by J.A. Franklin, National Association of Corrosion Engineers, Houston, TX
- Reese, R.J. "Silver", Minerals Facts and Problems. U.S. Department of the interior, Bureau of Mines; Bulletin 675, 1985 Edition., U.S. Printing Office, Washington DC
- Shumilova, N.A. and Zhutaeva G.V. "Silver" in Encyclopedia of Electrochemistry of the Elements. A.J. Bard, Ed. Vol. III. 1978. Marcel Dekker, Inc. NY.
- "Silver Compounds" in Kirk-Othimer Encyclopedia of Chemical Technology, 3rd Ed. 1983. John Wiley and Sons, NY
- Stumm, W. Chemistry of the solid-water interface: processes at the mineral-water and particle-water interfaces in natural systems, 1992. John Wiley and Sons, NY

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Ingredient:	silver (PC 72501) and zinc (PC 129015)			
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status
				Note

- Thompson, N.R. "Silver" Comprehensive Inorganic Chemistry. J.C. Bailar, Ed-. 1973, Plenum Press, UK
- Zhutava, G.V., and Shumilova, N.A. "Silver", in Standard Potentials in Aqueous Solution; A.J. Bard, R. Parsons, and J. Jordan Ed. Prepared under the auspices of IUPAC, Physical and Analytical Chemistry Divisions, Commissions on Electrochemistry and Electroanalytical Chemistry. 1985. Marcel Dekker, NY.

Footnote 5: Published literature references cited in Zinc Salts RED (US EPA 1992):

- FASEB, 1973. Evaluation of the Health Aspects of certain zinc salts as food ingredients. SCOGS-21

Footnote 6: Published literature references cited in Zinc Salts RED (US EPA 1992):

- NIOSH. 1987. Registry of Toxic Effects of Chemical Substances. Washington, DC
- FASEB, 1973. Evaluation of the Health Aspects of certain zinc salts as food ingredients. SCOGS-21

Footnote 7: Published literature references cited in Zinc Salts RED (US EPA 1992):

- Sax, N. and Lewis, R. 1989. Dangerous Properties of Industrial Materials. 7th Ed. Van Nostrand Reinhold, NY
- NIOSH. 1987. Registry of Toxic Effects of Chemical Substances. Washington, DC

Footnote 8: Published literature references cited in Zinc Salts RED (US EPA 1992):

- RED, pages 6, 11
- NIOSH. 1987. Registry of Toxic Effects of Chemical Substances. Washington, DC

Footnote 9: Published literature references:

- U.S. DHHS. PHS. Agency for Toxic Substances and Diseases Registry, Dec. 1994. Toxicology Profile for Zinc.
- WHO. 2001. Environmental Health Criteria- Zinc. EHC 221.
- FNB. 2002. Dietary reference intakes for Vitamin A, Vitamin K, Arsenic, Boron, Chromium, Copper, Iodine, Iron, manganese, Molybdenum, Nickel, Silicon, Vanadium, and Zinc. National Academies of Science, Food and Nutrition Board. National Academies Press.

Footnote 10: Per Agency agreement on 4/22/03, TGAi requirements are fulfilled by Bactekiller A, 3.5% silver in zeolite, EPA Reg. No. 59824-3

Footnote 11: Cited data are from EPA Reg. No. 524-354 (registration transferred to 71645-3), a 99.4% zinc oxide product and are cited in the RED or fulfilled RED DCI requirements.

Signature	<i>Marie Paquette</i>	Name and Title	MARIE PAQUETTE, Sr. Compliance Specialist	Date	11/29/06
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